


The background image shows the Air Force Institute of Technology (AFIT) building, a large, modern structure with a brick facade and large windows. The building is surrounded by a green lawn and trees. In the foreground, there is a large tree on the left and a smaller tree on the right. The sky is clear and blue. The text "AIR FORCE INSTITUTE OF TECHNOLOGY" is visible on the building's facade. Several flags are flying on poles to the right of the building.

# **WPAFB Community Forum 24 May 2006**

**AFIT Update  
Brig Gen Mark  
Matthews  
AFIT Commandant**



# Remembering why we are here...



Day 1,717 of the  
Global War on Terror

We all have a part to  
play

# The military is in transition...



...not just from 9/11, but also  
from 11/9

# **This fight is a marathon...**



**...where the road ahead is not always easy to  
see,**

**and obstacles are bound to appear.**

**AFIT has an important leg to run in  
our journey down this road.**



# The support of the community

has been  
is  
and will be



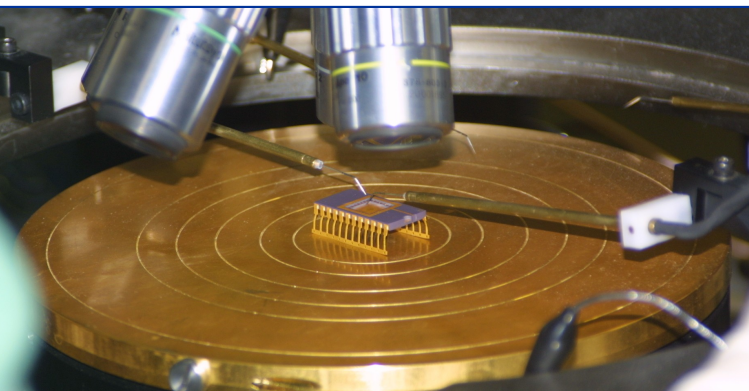
critical to AFIT's future  
and the country's  
future



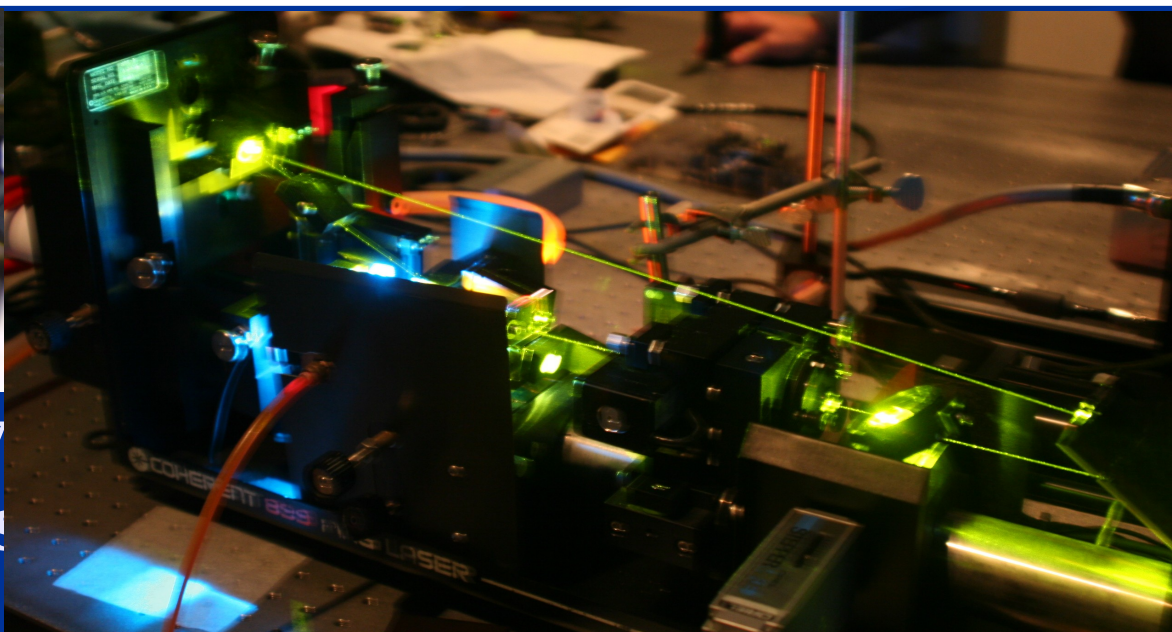
# AFIT's role:



Education to forge  
tomorrow's leaders...



...and technology  
to win tomorrow's  
fight.



# **AFIT's makeup**

**Graduate School  
of Engineering  
& Management**



**Civil  
Engineering  
& Services  
School**



**School of  
Systems &  
Logistics**



**267 Faculty, 214 Staff, >900 Resident  
Students**



# Graduate School of Engineering & Management:

## Tackling the challenges of asymmetrical warfare...



# ...with high-technology solutions



Aerostat Moored at Theater Site

## Mortar Detection Sensor:

- Pinpoints Mortar Launch Location
- Photographs Attacker



Aerostat in Operation Above Iraq



Lt Kless Along with Other Aerostat Team Members

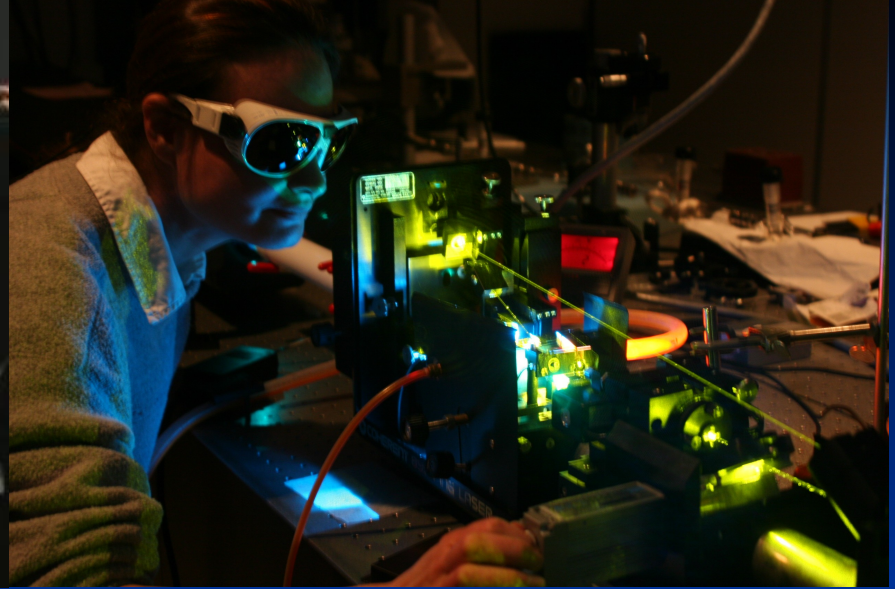
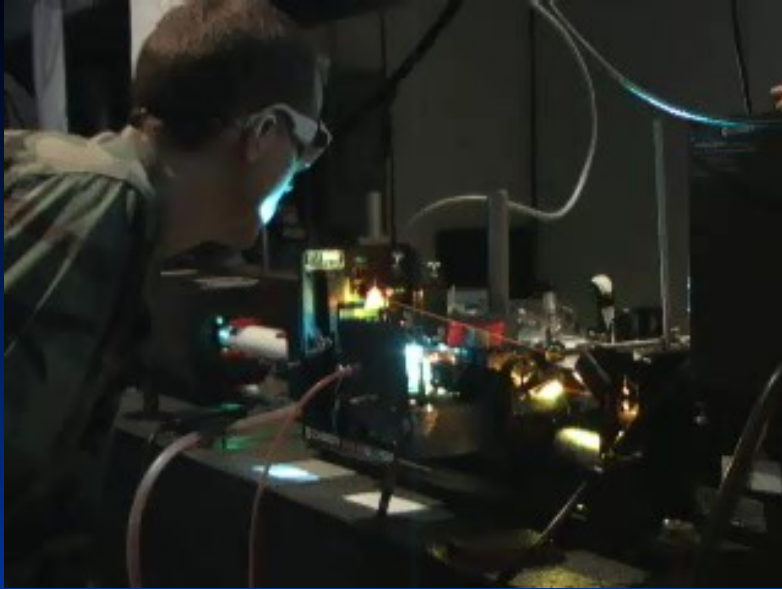
# ...that take the fight to the enemy

## Real Time Imaging:

- High Resolution
- Broadly distributed

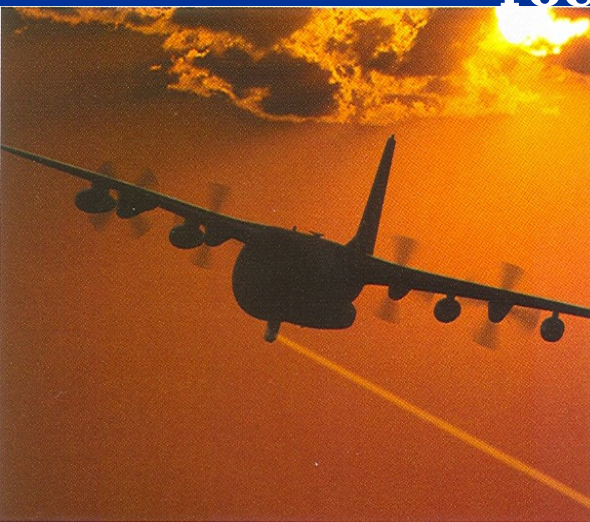




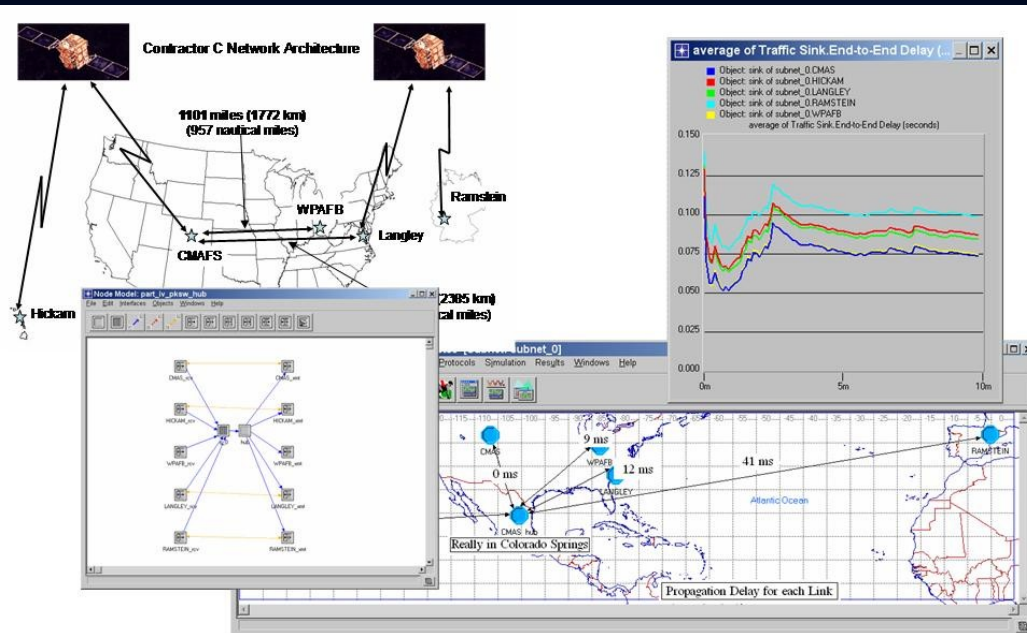


## Directed Energy:

- New laser technology
- Imaging and remote sensing
- Airborne lasers, defense against rocket attack

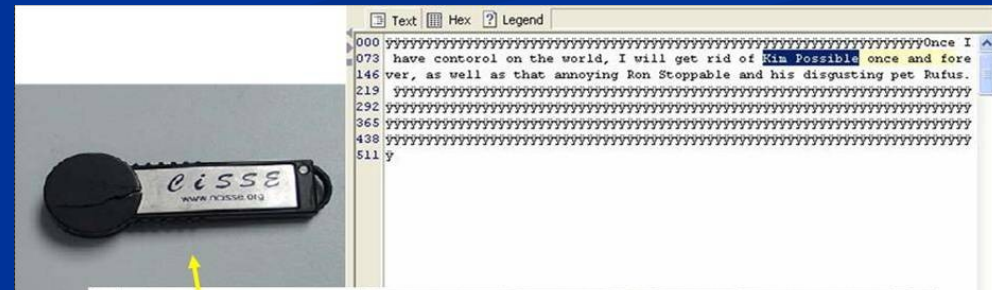






# Cyberwarfare:

- Computer network design
- Defense against computer attack
- Cyberforensics



FIGURES 1 & 2 – Initial crime scene

## Micro Air Vehicles:

- Structural vibration measurement
- Computer vibration modeling
- Wind tunnel validation





## Space Operations:

- Satellite control
- Inflatable space structures



# Civil Engineering & Services School: Training the professionals that make this happen...





# **School of Systems & Logistics:**

## **Taking education to the warfighter, anywhere, anytime**



**Logistics**



**Systems  
Engineering**



**Acquisiti  
on**



# **AFIT initiatives are laying the groundwork for continued excellence**



**Intermediate  
Developmental  
Education**



**Distance Learning**



**Expanded Sister  
Service  
& International  
Students**

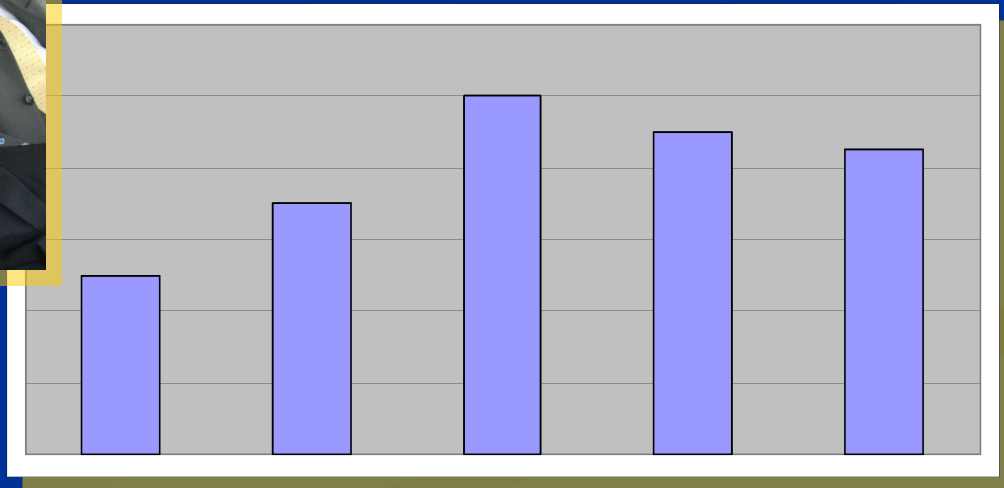


**We are confronted not only by research  
challenges,  
but by transformational challenges as well**

**BRAC**



**Manpow  
er**





# How can AFIT keep up its stride, and build on its strengths?



Every runner needs a support team!

# The WPAFB community provides the environment needed to sustain and strengthen a world-class institution

- Strong family environment
- Good schools
- Cultural activities

A place where professionals want to work and live

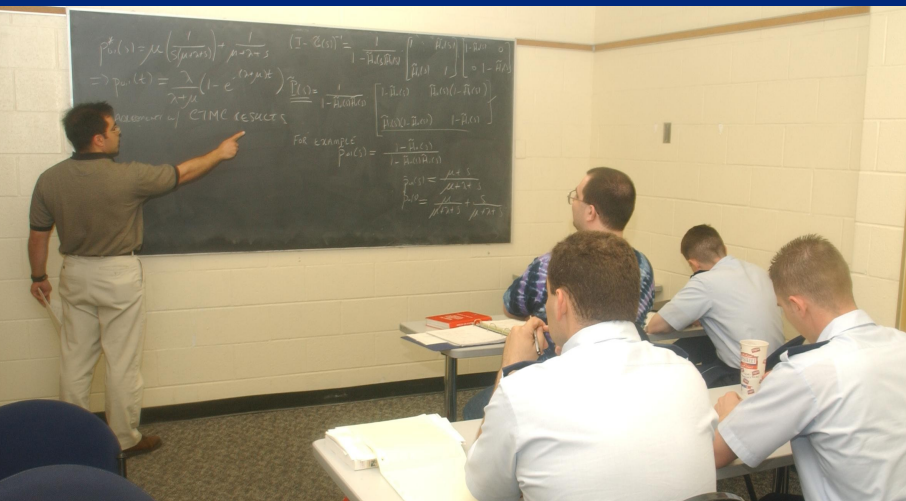




# From classroom...

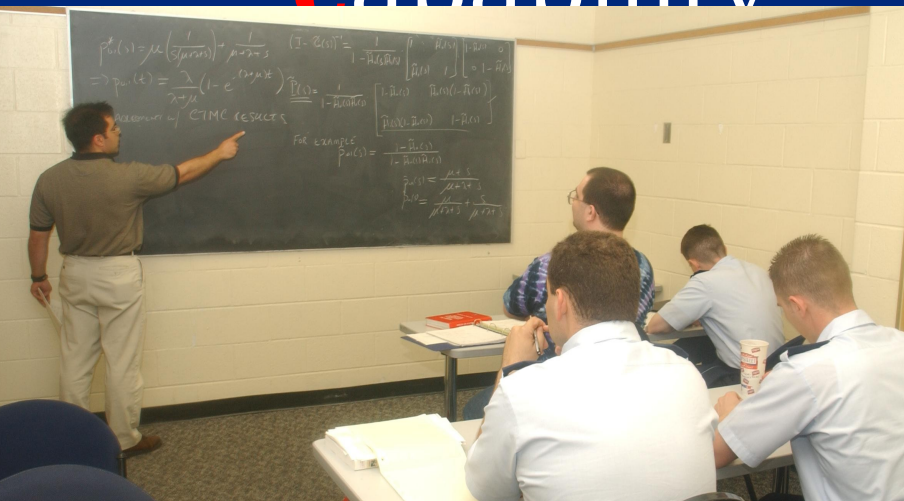
$$E = m c$$

2



# From classroom...

Education  $E = m$  military  
capability<sup>22</sup>



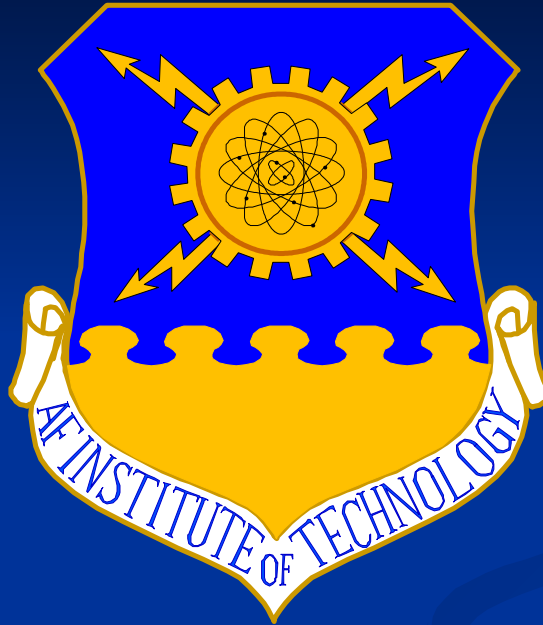
# ...to combat



**AFIT is working to win  
tomorrow's battles...**

**...with your support**

**Thank you!**



***Defense-focused  
Education,  
Research and***